Longevity technology

what works on everything? plants, yeast, people?

is there anything about being a perennial plant, as compared to an annual plant that could have a genetic coevolution at humans, like vasular plants of a certain kind of vascularity are perennials, and multicentruy lifespan ones have a particular kind of vasculature.

are any ion transport channels conserved between plants and people. I read about 1/5 of genes are actually the same, so the entire suite of “most optimal at plants” at that 20% could be compared withthe human version, then those 20% of shared genes could be optimized based on the most longevity and capability beneficial

plant versions of those genes; also there is the engineering approach as well. Like, say, plants use only 1/3 as much ATP to transfer a glucose across a cytomembrane, just going for the plant genes might not function, but the way the better transport channel actually physicochemically works, and computer simulations of the proteins itismade outof could provide a place for humans to create a new gene based on the physical chemistry of the transport channel.

Molecular biology generalizables, repeatable forms, and things (feeling unclueful, but like: things) such as a alpha helices, twisty ladders, beta sheets, barrels, and things that look kind of like like notebookpaper iris flourishes are, as likely almost any genetic engineer knows, tunable (9% longer, 3% more curve), adjustable

(twice as tall), taxonomically findable (5000 different beta sheets and where to find them, and the nucleic acid sequences that make them, and the ribosomes/ER/golgi structure that build them) at a lookup catalog for any particular organism; so like, find the 20% of genes shared with plants, see what has better engineering, then use the databases (catalogs)

So, there is a way to make things at a cyte I just read about, “n contrast, non-proteinogenic amino acids are amino acids that are either not incorporated into proteins (like GABA, L-DOPA, or triiodothyronine), misincorporated in place of a genetically encoded amino acid, or not produced directly and in isolation by standard cellular machinery (like hydroxyproline). The latter often results from post-translational

modification of proteins. Some non-proteinogenic amino acids are incorporated into nonribosomal peptides which are synthesized by non-ribosomal peptide synthetases.” So as a **longevity technology there are a whole bunch of cytochemicals and cytoproteins called nonproteinogenic amino acids** that are not make by the ribosome, and some of them might have longevity, wellness, healthspan and youthful phenotype effects; **is there a way to cause these nonproteogenic amino acids to be at teenage amounts, locations, and production as a response to various body and cyto triggers?** The cytomechanisms that do that teenage amountness, or most strongly support the production of, or are like the rate-limiting step at, the production of nonproteinogenic amino

acids could be longevity drug mechanisms.

Also, noting these are nonproteinogenic, it is possible that their production is vaugely associated with amounts of enzymes and substrates floating around in the cytoplasm, as compared with frequency of transcription of a codon sequence at a nucleus and a ribosome, so that suggests that as compared with a genetic source, **nonproteogenic amino acids have a much more fluid, completely computationally different dynamic and modellable sourcing and residable areas**; So, **they could look at the nonproteogenic math models that describe actual chemicals at supercentanarians and prepubertal children and find out if they are like 7% different of**

300% different, and then come up with approaches to bring the supercentanarian nonproteinogenic chemistry to be like that of the prepubertal children, This could be based on endogenous production of more, less, or molecularly different nonproteinogenic amino acids; making the repairs or improvements durable, gene therapy or gene optimization at the germline could be used to affect the nonproteinogenic amino acids. This could possibly be based on the gene based production of things like enzymes and prechemicals (substrates) at, or with, the genes that code ribosome-made proteinogenic amino acid sequences to make things like enzymes. Compared with gene therapy to make more things like enzymes and substrates, as a longevity technology supplements,

probiotic secretions, or possibly at some things, depot injections could make the supercentenarians and anyone older than a prepubertal child's quantitative measurements to be those of a prepubertal child.

As a longevity drug source, I think a computer program could just screen the multiply interconnected: [protein and chemical and protein effect each other] network diagrams I have seen, then make a list of the ones with the largest variability, the largest mass of actual chemicals produced, the particular rate limiting step chemicals and the biggest differences between chemical amounts at supercentenarians and prepubertal children, and then from those lists make a new list of differenter, bigger, most and least supply assurability, and possibly if any of them are

essential to like 2 or 11 different simulataneous mostly unrelated processes, making them kind of like having effect multipliers. So then you get a list of nongenetic nonproteinforming amino acids where anomolies are possibly repairable with supplementation (or gene therapy on things like enzymes, or enzyme substrate production) and the repair of those anomolies can be quantitatively measured as to if they have a longevity, wellness, healthspan, as well as phenotypic youthfulness of the organism, such as a human effect.

Also, finding the rate limiting step, when either a nonproteinforming amino acid is either being produced, or when a nonproteinforming amino acid is the actual rate limiting step of another cytological or tissue or body

activity, finds things where more or less of it could have a wellness, math-system and actual physiological resilience, and then those might effect healthspan and longevity. (and so what?)

Some longevity things: So with histonation, acetylation and methylation, are there any pathway chemicals that come from nonproteinforming amino acid chemistry and availability as a rate limiting step? If there are, then supplementing that nonproteinforming amino acid could produce a rate change, and a new amount, of histonation, acetylation, decaetylation, or methylation. I previously thought of these histonation/acetylation/methylation things as gene driven and now think that rate limiting nonproteinformin

amino acids (production of which could also be gene driven) could steer their actual longevity wellness healthspan youthful phenotype effects. Similarly, using the same thinking algorithm, as a longevity technology are there any things in the AMPK (metformin, CR) mTOR (rapamycin) that are rate determined from a nonproteinforming amino acid? Then more, less, or a different version of that nonproteinforming amino acid would be a longevity drug that amplifies metformin or rapamycin's effect or even alone similarly amplifies the longevity effects of an endongenous chemical process; also a new version of the nonproteinogenic amino acid could have twice, half or an order of magnitude different AMPK, mTOR, or histone effects. Sort of like if a person said, "look GABA" and then another researcher said. "like

phenibut cuold be an amino acid that takes pathway locations and actions” and if they were swapped there would be a bunch of organism changes.

So, **an informed person could just look up longevity genes, then find any nonproteinogenic amino acids at their pathways, then suggest new, different nonproteinogenic amino acids, or synthetic chemicals that would change the amount of activity of those longevity genes at causing longevity with the purpose of increasing longevity;**

I read people looked at the mitochondrial genome, mtDNA, to find longevity and energetics technology avenues; **are there any essential or rate limiting nonproteinogenic amino acids active at functioning**

mitochondria? If there are then supplementing those, or otherwise modifying the amount that gets produced could have an effect on mitochondrial energy production, ATP availability, and possibly a calorie restriction, AMPK workalike that is without reference to the actual amount of food concerned.

putting drugs on either the brain side or body side of blood brain barrier: hydroxyproline is a zwitterion, and I read those stay out of the blood brain barrier, the thing is noopept, Pro-Gly concentrates at places like, but maybe different than, the frontal lobes and hippocampus, so even though it has a proline it passes the blood brain barrier.

entertainment value: like there could be a list of all the proton conductor-

like things at the body, and all the proton-turned assemblies, and it would just be groovy to be aware of. Like, if you give a person lithium supplements does their proton mechanical work effects like go triple strength? Also, someone who knows could say something like, “well, last thing you heard these were really H3O+, so actually much larger than a hydrogen atom, but they still physically move around.

Longevity technology:
so, after a person makes alist of all the nonproteinogenic amino acids, and the amount they are different between a supercentenarian and a prepubescent child, thay could make a supplement that brings the supercentenarian to the prepubertal child’s nonproteinformingaminoacid amount; This might be extremely

liposomal to get to the gi tract without digestion, so it might be a bunch like a a milkshake or a flavorless beauty topical emulsion. Another possibility is genetically engineering a probiotic to make sufficient GI tract absorbable nonproteinforming amino acids to cause amounts at supercentenarians to rise to those of prepubertal children.

It is at least theoretically possible to find the nonproteinogenic amino acids that there are more of at a supercentanarian than a prepubertal child and stimulate enzymes, which are made of protein, and can be increased with gene therapy, to change the extra amount of nonproteinforming amino acids into something different or otherwise reduce their amount to be the identical amount a prepubertal child

has.

I think I wrote about this previously, but it has to do with using psychology tests and software tests to find things and areas where beneficial change is most likely to suceed with the most frequently applied amount of effort, which is a little different than the least effort. It might actually be the near the middle of a normal distribution amount of effort, or perhaps the amount of effort 10 out of 11 users are likely to voluntarily and spontaneously, or with planning, utilize and measurably exhibit beneficial participation and action behavior at.

The software has you open your social networking page in a side tab, quantifies and correlates and predicts what it thinks is your personality, and

then does you good. Most likely it does you, and others, good before it asks you for further tests or sample making participation, and possibly for most persons the analysis of the person's online content will have sufficient predictive validity to have the software do the person, and other people good.

So it is different than the least effort, although the least effort that causes beneficial enhancement option will also be available to all software users, although as a way the math definitions go, 10 out of 11 will go for the most mathematically "normal" projected amount of effort. Notably, the least effort to produce a beneficial and benevolent action with durable ethical value might actually sometimes be more effective at causing purposed benevolent

utilitarian well being t the largest number of people that builds behavior of durable beneficial effect; for example, clicking on the most awesome thing at amazon.com, which has been quantitatively measured and verified as, compared with the software, causing 300% more utilitarian benevolent durable well being at the software user,other humans, and those other humans they have kind feelings for, is actually easier than using the software if your financial data is already at Amazon.

It might be really awesome to see if there is a way to make something authentically beneficial and action causing that is actually more wonderful than the most wonderful thing online, if you knew what it is. Going with the idea that it is possible to know what that thing is, is there a

software guidable group of most successful accomplished voluntary actions at causing benevolent and wonderful simultaneous utilitarian benefit, that is actually more optimal than clicking at the most optimal item, or even experience (you can likely click on “volunteer to teach overseas at____” vacation at amazon). So software that does people good, effectively, through their own voluntary actions, is complemented or logically related to the actual thing of the most optimal thing to geton amazon.

Then after the computer processes the person’s social media, and modules measure things like social connectedness to how many friends and with what kind of “emotional and congitive tonal stance” they interact with each other at on social media,

the person might then take the software quizzes that the software generates a bunch of action item containing and motivating webpages, perhaps cartoon illustrated, or with “Do this and click here to get one of your amazon dollars back! (you know, the ones you put aside so we could offer you rewards for doing and reading!)” that are about things the person is algorithmically modellably most likely to succeed at,

so basically the software might figure out, among people like this one would this person and others benefit moreormost from:
more, or also better, friends or romance
predictability, material compensation, or more enjoyable voluntary employment
physiologically adjustable beneficial

things like doubled lifespan, genetically optimized children, things that cause the person to feel at their 99.9th percentile of bodily well being, usefulness and enjoyment

A style of thinking that might be called a narrative that causes greater happiness, optimism, actual opportunity, action sourced feelings of capability, capability to not only pleasantly value change, also to change material and interpersonal observables, value, ignore, work around, or change society or also near-field groups that frequently have spontaneously generated microcultures or conformable behavior trends, as well as measurably feel benevolent and be action based benevolent towards others

and some other simultaneously

utilitarian benevolent things.

The things the software suggests are not only the highest likelihood of actually being accomplished, both from that person’s computer modellable amount of predicted sustained, remembered application of purpose as well as algorithmic representation of the projected effects of early, mid and after activity enjoyment as well as any interpersonal social factors that bolster effective action.

So, what does the software actually suggest people do? Well, the software scans all the social network material it can find, or about 700-1 billion human’s production of text, comes up with something like 2 personality concentrations or clusters per big 5 personality test item, giving

each person either a 25 different 5 letter personality designation or the much more predictive and beneficial treatment of the psychology measurements as smooth continuous data using math formulas, or if the benefits of a digital and analog representation are compared, and some prefer a digital representation, perhaps 512 or 1024 bytes of resolution derivable from analyzing social network postings and images, and video body language at each of the 5 big factors, or, better, a “non taxonomic” psychology test where like the MMPI they just came up with hundreds of questions, then found out what people, with what pre-existing happiness, capability, well being and kindness answered which way, then gave different parts of a group the repeatedly recalibrated test that amplified, promoted and retained the

most predictive questions, to come up with a predictive psychology test; So, the software builds a non pre-taxonomified measurement test that is re-verifiable on other data samples test, based on social networking and various electronic, phone and video content, and where possible, all the content at the links emanating from a person's social networking or other internet posts.

Software analysis of social networking, phone and video content (as well as test values) causes a personality characterization thing that the advising software utilizes, **based on analog math** or a digital form of individual personality and personality group description, which could be described as a math space or data space which as a math or data space is larger than 99.99999th percentile of

group predictability, or a math space or data space of1024 bytes, optimally whichever is larger. Noting that 1024 bytes, being sort of like 2^8100 is sufficient to give much more than a quadrillion persons perhaps more than a quadrillion discernable different values of amount or form, at about a quadrillion different measured personality dimensions or beneficial activities; it is possible that the 1024 bytes to describe a measured personality and predict it, as a group provides much higher resolution and richer opportunity and nuance of consideration, new opportunity, and advice than the 99.99999th percentile predictability math or data space measures. Another valued data represention space option besides 1024 bytes or 99.99999th percentile accuracy at finding and predicting enjoyability, actual action, and

benevolent simultaneneous utilitarian benefit is the amount of bytes to represent the entire brain, or optimally the brain and body of a living person, which is also a beneficial and valued amount of data to represent and predict a human, that is a person, a member of a group of people. At the time I write this it is not, to my awareness known if 3d or 4d fields describing an unobserved electron, at a plurality of atoms is near, or orders of magnitude too large a grain size to describe, computationally model and predict actions and perceptions at a living brain, and predict or simulate thoughts, feelings, and other brain-based content and effects at a human brain; grasping at things I have heard of, and thinking that there will be better conceptual forms and even nouns at higher measurement system

resolutions, it is possible that a quark level description that includes all possible interactions at an area larger than a lightcone, or from a possible perspective, the size of lightcone that a human perceives: like, if I notice things 100 ms at a time, then my personal lightcone of things I could look around at and think had presence, processable meaning, or possible effect might be all the things at about a 15,000 mile radius (100 ms lightcone) from my eyes. The size of the grain of a simulation that can predict brain experience, content, is researched and possibly applied at transhumanism and transhumanist technology; predictions, simulations, models, or algorithmic optimizations of humans that is persons, that is members of a group of people, utilizing all the atoms and fields, or with higher resolution data and

measurements, around the brain create a nearer to predictive and benevolent utilitarian acted upon advising software function that prompts and fosters enjoyable voluntary utilization of software that does a person, as well as people, good.

So there is this thing, a representation of a personality, and it has high repeatability of measurement outcome, and is also validated as to its effectiveness when people use software based on it: the people being advised experience computer based content, which could be text, browser based web, or something like educational software, that is quantifiably measured at a previous sample as causing the highest amount of actual success at benevolent durably beneficial utilitarian action;

Optimally, the computer is high functioning enough to write the motivation to action things the person reads, hears or views as computer generated moving images, and the comprehendable followable, and quantitively measured as followed instructions, that are also enjoyed following while utilizing, instructions. The computer finds possible actions that do people good, that they will actually usually do and enjoy, and succeed at accomplishing, building even greater action capabilities. The software generates custom instructions, and also sends users texts and phone vocalizations, along with computer screen content, perhaps at various times to algorithmically move a beneficial voluntary human-purposed outcome into being.

There is also the crowdsourced human built, software appraised, module approach to creating software that people voluntarily use that does them and others some simultaneously utilitarian good. Consider the 20,000 things most people frequently do. Also consider that among these 20,000 things perhaps over 10,000 already have books written about them, and reviews of the books have isolated some with 4 or more stars. Now noting that fluent enjoyable writing, numerically popular emotional and cognitive tone, and sufficient fun or amplitude of feeling has occured such that a person actually voluntarily writes a review,
Are the book reviews of any value? Possibly. One approach is to use a neural network like deep learning AI to

measure the nearness or distance of the cognitive and emotional style of the reviewer compared with that of the software user being advised and make that a part of predicting if a book review with actual domain specific content on how to have good actions with enjoyable utilitarian benevolent success at one of the 20,000 things that people do, topics is at a neural-network highly predictive of simultanous realized utilitarian benefit and enjoyability, then the 4/5 or 5/5 rating could cause the content at amazon to be at software or a crowdsourced voluntarily human composed module, be a part of the module or software composing interactions, these build and guide the voluntary actions the software enables people to voluntarily, and enjoyably, do.

Notably though, there might be a thing like a Pareto 80/20 like effect where 10% of the software development effort, with crowdsourcing the production of voluntary participation modules, perhaps at each of the 20,000 things people most frequently do, causes development at an order of magnitude less dependence on the individual drive of persons at the software company and much less financial resource pooling, and with 10 times faster appearance and utilization at society from more rapid development.

So, what might the software actually do?
sort of like a bird or tree identification guide, the software could do a binary (or case statement) taxonomic tree of all behaviors, with 20,000 of the things people most frequently do,

which as 20,000 things can be made into a database that could run on a 2019 AD desktop PC as the 1.1 form of the open source module library. If a human module writer feels like making something new tothe database like: writing, “order a free hugs shirt online, then wear it every monday for three months” They have contributed; it is possible that modules might be constructed from templates where something like a mad-libs form is populated. What: Free hugs: personal contact:10-20 times per hour, public space action, private space action, $9 outlay, percent of interaction or conversation that advisee originates: 95%, advisee conversation branch opportunities or new activity branch opportunities generated per hour: 20; then as people actually use the software and do the advised actions,

the “free hugs shirt” activity gets better characterized and it is possible that something like a neural network does something like deep learning and if there are a few hundred or thousand people that have tried the “free hugs shirt” advice that the deep learning model is able to increase accuracy of predicting which advised persons will do it, cause simultaneous utilitarian benefit, like doing it, experience and utilize beneficial opportunity branches that are beneficialto all the persons at the branch, voluntarily repeat the experience, and write about it using positive language at social media. So that might be what happens when a person writes a “free hugs shirt” module,

The 10,000 or 20,000 things people do most frequently, ordered on utilitarian benefit, benevolence,

enjoyment, and generated well being at others is a thing that could provide voluntary beneficial advice with a quantified highlikelihood of causing an actual beneficial action;

There could also be some sort of algorithm that figures out the math of 1 million people doing a module, each with a 10% chance of success, where the benefit is 20 times higher than something 90% of people will complete that has only 5% of the other items benefit, as supported with actual utilization measurements, this permits the suggestion of the highly beneficial 10% success activity, noting that the activity can have its action prompting statement modified such that it “feels successful” 90% of the time, while at a different measure of its utility is achieved 10% of the time, but the projected benefit to the entire

considered area of human beings or existence is 20 times larger than an activity module with 90% achievement and 90% “feeling of success”. So part of the thing the module builders and programmers would do is work out a kind of automata theory or light pleasant “behavioral economics” of combining some n of feelable, useful action outcomes with other variables that do a systematic algorithmic valuation of a state space that includes “feels good, just as good as goal achievement even if action outcome is absent” and a three or more variable version that can determine optimality when things like “feels good, is good, is easy, has 90th percentile or larger sized beneficial effect and is 90% likely to be actually achieved” are placed at some kind of data representation and compared with

things like “feels good, is good, has 95th percentile or larger sized beneficial effect and is 80% likely to be actually achieved”. the software just uses the data representation of the persons personality, and at 1.1 version just sorts through the 20,000 things people do as well as any new person or software written advice modules.

The things to do are likely, perhaps mathematically related to the kinds of things the programmer, module editor, or even crowdsource content providers are able to think of, it is possible some formula will value what people that are similar to the personality profile of the voluntarily active, beneficially active software user thinks are beneficial things to do; notably an ethical person, either the programmer or a person clicking []

and sliding ———[]— at the control panel, as well as crowdsource module builders, would even think of things that they think are beneficial to do, and introduce those to the software user. Also, having it be reconfigurable makes it so that if some person more authentically benevolent, beneficial and ethical than the programmer occurs the simultaneous utilitarian and well-being value of the software, using the software, and the occurence of actual beneficial actions go up.

MWI technology

Rather than just 512 or 1024 bytes to represent a personality such that it can be benefically advised at a way that is quantitatively measured as enjoyably prompting of actual

voluntary action with high likelihood of producing actual benefit to the advised person and simultaneous utilitarian benefit to a plurality of persons, the software can utilize a data representation, like analog equations or digital represention such that the number of representative bytes encompasses 99.99999th percentile predictability of the suggested behaviors causing simultaneous utilitarian benefit and enjoyment when acted on, and 99.99999th percentile predictive ability of what the actual human will actually do, notably, this what the human will actually do measure could be other than an individual prediction, but the ability to predict what a group of persons with a similar personality characterization actually do as a distribution. So, it is possible the software might only have 99.999th

percentile at predicting what an individual will do, but at one billion users with a mathematically similar or with high taxonomic similarity, a math-represented and feature resolvable personality form description or data representation, with 99.99999 percentile behavioral prediction at one variable is the resolution of the personality characterization and test form, group, type, or more optimistically, analog math statement of, personality. Notably this is very improveable as if 9 completely unrelated uncorrelated personality variables are predicted the prediction has something kind of near a 1:1 chance of getting all 9 predictions right simultaneously. The software might use predictive accuracy to converge on advised actions that have simultaneous utilitarian benefit, are enjoyable,

emotively pleasant, or even fun, cause more opportunity, cause neutral or greater physiological well being, cause beneficial capability increase at the advised person from guiding practice at a cognition, emotion, or knowledge span (you beneficially think more, beneficially feel more, or beneficially learn new stuff, or all three), have durability of utilitarian benefit, the action, as well as, or, its effect causes those unknown to the advised to have heightened durable increases in well being, Beauty and beneficial aesthetic feeling and experience occur, it heightens well being and prospective well being at friendships, romance, and possibly those the person sees as part of project based activities, known during 2019AD as co-workers. So that is 9 things, from a personality representation at 99.99999th

percentile if those 9 things were independent variables, although I do not have a functional ability to use the math that accurately describes the system, it might be the software has a 1:1 likelihood of predicting the effects of all 9 simultaneous software generated benefits from acting and following the advice the software produces, which, beneficially, is constructed and described at a such a way that humans usually voluntarily utilize and do actions based on the software's advice.

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as a math space or data space which as amth or data space is larger than 99.99999th percentile of group predictability, or a math space or data space of1024 bytes, optimally whichever is larger. Noting that 1024 bytes, being sort of like 2^8100 is sufficient to give much more than a quadrillion persons perhaps more than a quadrillion discernable different values of amount or form, at about a quadrillion different activities; it is possible that the 1024 bytes to describe a measured personality and predict it, as a group provides much higher resolution and richer apportunity and nuance of consideration, new opportunity, and advice than 99.99999th percentile predictability measures. Another valued data represention space option besides 1024 bytes or 99.99999th percentile accuracy at finding and

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possible perspective, the size of lightcone that a human perceives: like, if I notice things 100 ms at a time, then my personal lightcone of things I could look around at and think had presence, processable meaning, or possible effect might be all the things at about a 15,000 mile radius (100 ms lightcone) from my eyes. The size of the grain of a simulation that can predict brain experieince, content, is researched and possibly applied at transhumanism and transhumanist technology; predictions, simulations, models, or algorithmic optimizations of humans that is persons, that is members of a group of people, utilizing all the atoms and fields, or higher resolution data and measurements, around the brain create a nearer to predictive and benevolent utilitarian acted upon advising software function that

prompts and fosters enjoyable voluntary utilization of software that does a person, as well as people, good.

MWI technology
I wrote about MWI superobservers previously, one version is like a computer IC that can make, at 2019 AD integrated circuit part sizes, 11 billion observations about 3 or 4 billion times a second as compared with a human doing perhaps 1-11 observations per second, also the superobserver could observe things at different distances, different number of network of nodes neighbors at its conceptualizable size, also it could observe both things eentsier than quantum resolution and things larger than projected quantum nonresolvedness.

Another many worlds interpretation of physics thing is that I perceive some humans describe the amount of MWI universes as variously aleph 0 nonfinite, finite, unitary nonfinite, unitary finite, some other aleph number like aleph 1or aleph 2,
I also perceive that although I read the phrase, “algebra of [nonfinity]” that area might have taught me how to say something like, “two aleph0 things exist, however one of them goes twice as fast as the other, the amount of actual amountness is amount”, or it might have provided a guide to the idea that if a person flips a coin, and it has a chance of landing vertically, then the outcomes are a nonfinitude of heads, a nonfinitude of tails, and a nonfinitude of vertical landings because at a version of MWI I saw mentioned, each of the three landing

forms is aleph 0, so they are of equivalent amount. That does not however say how they are physically spaced as they are tossed at spacetime. If you flip a coin a bunch of times as the millky way rotates then the coin flips traverse space tracing out a kind of line of spaced circles, and although every few n flips you get a vertical much of the flips are heads or tails, so if you were at a zig-zag thing like a raster scan CRT, or a groovy concentric circle pen on an oscillating mass, then the heads, tails, and verticals, would have a spatial anisotropic pile up, whether it is like diagonal space paths through a screenful of text, the text fitting each line and always making obvious unchanging columns, or a moire at a groovy circle pen linked to an oscillating mass drawing on its own path. So, something like that

suggests the possibility that even though heads, tails and verticals are all aleph 0, so are at the same amount, that since things are (or might be) in actual physics motion so that their distribution gets geometrically drawn out, and that causes anisotropic concentrations and structures, at a 2d or 3d space, even if all the amounts were aleph 0, there could still be “piles of rare” and piles fo frequent”. It is possible some of these MWI branch effect geometry-emerged structures from anisotropy have some measurability or predictability, possibly actual physics observations that could find some kindof MWI verification.
Or just possibly there is a math thing where, if it is impossible to find recurrence and geometry generated anisotropy and some sort of emerging group geometry, then some particular

group of axioms is applicable, possibly like: no anisotropic geometry effects? -> nonfinite plane, motions are absent ever overlapping or coming near each other;
I do not know what I am talking about but the idea of a 2d or 3d or some other d spatial distribution or form to MWI branches is new to me, and emerging geometric forms like diagonals, columns, moires, and a larger plane that automatically makes mini-square images of itself seemed like they could have a structure that could have something measurable or detectable about it.

At previous writing about ways to verify/refute/verify the MWI, and I really do not know what I am talking about, some things came up:
Wobble, or the possibility that if MWI universes are generated very near

each other or very rapidly there could be some effect on the amount of space, energy, or chonological moments available artound them or at their lightcone, doing an experiment like that and then noticing if anything wobbles causing not predicted by previously published physics is a thing where multiple technologies are described.

Longevity technology:
This study https://www.nature.com/articles/s42255-019-0033-z says what c elegans experience as an olfactory thing causes greater longevity. Screen a big library of scents on mice, possibly a group of 40 or evn 100 different smells at once per mouse, 8 mice each for a p value, 10,000 scents, if there are that many, would be 100 groups of 8 mice:

baby mice,
mice that are calm, like on oxytocin, benzodiazepenes, mice that are well fed, longevized calorie restriction mice, mice raised at cognitively enriched environments, mice receptive to mating or a dry-off the mouse cloth after washing; also the mating-ready mice secretions, mice, like people might live longer when they have a social life so some solitary mice with air-sharing tubes between their living areas,

Curcurmin: “Curcumin with Piperine which inhibits MAO-A”

What is the most popular lipid rich food? Modify that to use omega-3s, genetically engineer things like palm oil, soybean oil,

Longevity technology: **IC technology**

senolytics: It is possible that eensty doped silicon or germanium fragments or even quantum dots could be engineered to be catalytic and both reach cytes at a variety of tissues as well as be catalytic as a result of the doping. Attaching localization molecules like proteins, peptides or few-AMU chemicals as well as external cytomembrane transport channel transport heightening molecules to the doped or plated IC technology nanoobjects, it is imaginable that Co, Pt, Ni doping or plating of Si or Ge could produce catalytic nanoparticles that effect localized tissues and cytes to experience senolytic termination. Another possibility is Au as there are Au based chemotherapy drugs also Pd chemotherapy drugs are being researched; Also, doped or plated Si or Ge IC technology nanoobjects that are mildly toxic yet with chelator

removable elements like Be or Cu, Cr or Iodine metal or could have senolytic effects and some like Cu (some protein has Cu) and Cr (chromium picolinate) have physiological utility if they react away to be ions.

Fisetin, a senolytic, is $22 per 10g on ebay, so creating variations on fisetin that are just as affordable or even more affordable could benefit even more people;
Aspartame: $40.96/Kg (ebay) is much like a two mer (unit) peptide, noting Pro-Gly favors transport to the brain, it is possible there are numerous two mer peptides, among 400 (20 amino acids times 20) variations, that localize at a variety of particular tissues; It is possible that attaching these two mer peptides to fisetin or another even a more affordable

molecule could create really affordable, perhaps even greater potency per milligram senolytics with beneficial effects at numerous tissues. That also benefits longevity medicine worldwide.

Noting fisetin, which wikipedia mentions is sometimes called “5-Deoxyquercetin” is a phenol, it is possible other phenols are senolytics, a chlorinated phenol, possibly a variant on trichlorophenol or could be a senolytic that is 10 or 100 times more potent per mg, thus making a fisetin equivalent dose go to $2.20/10g or even $.22 per 10 grams; at an approximate 500mg daily senolytic fisetin equivalent dose (although it is possible it is actually 6 grams every 24 hours if the mouse compensation factor is ignored) that 500 mg is 11 cents a day (10 times

potency) or possibly 1.1 cents a day (100 times potency).

Noting that quercetin is also a senolytic and has been published as being effective when combined with dasatinib the name version of fisetin that is Deoxyquercetin suggests the possibility of screening a library of the starting quercetin molecule could find molecular variants that have longevity and healthspan benefits; chloro and other halogenated quercetins, possibly where the halogen replaces the oxygen at the body of the mid-molecule carbon cycle could do something, it could be the distal parts of the molecule could have more effect (quercetin omits one -OH, so if fisetin is thought to be even more effective than quercetin then a halogen like Cl where the OH difference between fisetin and

quercetin is could increase effectiveness further); Or, noting ethynylization makes estrogen and progesterone go from hundreds of milligrams to hundreds of micrograms to be an effective dose it is possible an ethynyl version of fisetin or quercetin, where one of the-OH is swapped out with an ethynyl could cause a senolytic variation on fisetin or quercetin that has 10 times, 100 times or even 1000 times less mg (or mcg) to be an effective senolytic dose and might localize at different tissues. If the ethynyl actually gets it to 1/1000 producing a few hundred or tens mcg dose then a longevity and healthspan increasing dose of senolytics could be less than 1/10 of a cent to make, and noting fisetin on ebay is $22/10g something 1000 times effectiveness is near 1/10 of a cent per dose, also that is just 3.2

cents for a month long treatment or 1.6 cents for a 14 day treatment that I think I read about. That affordability benefits longevity of humans globally.

Fisetin dose and treatment length variation, “Fisetin turned out surprisingly to be superior to other currently known senolytic compounds. The study concluded it would induce apoptosis (cell death) in 25-50% of senescent cells. The dose which the researchers used was 500 mg per day for five days for a 132lb / 60kg person so the dose needs to be adjusted to the individual persons weight.” **so perhaps 700 mg a day for 14 days**; also “Mayo human trials of fisetin. **Dosage is 20 mg/kg/day for 2 consecutive days.” is 1.4 grams per day for two days, so possibly take 700 mg until 2.8 grams remain, then use the Mayo study**

dose for 48 hours. Also, Mayo Clinic: "**100 mg/kg of fisetin** in 60% Phosal 50 PG:30% PEG400:10% ethanol" is 7 grams per 24 hours. Phosal is Phosphatidylcholine Contents 25-75% with: Medium-Chain Triglycerides Sunflower Oil Safflower Oil Propylene Glycol; **piperine may amplify fisetin potency: "**It is claimed that taking 10 mg of BioPerine, a supplement that is reputed to magnify the effects and potency of flavenoids and other supplements, along with a dose of Fisetin will greatly increase its bio-availability.", "In our last session of taking a massive dose (5 g) of Fisetin, my wife and I took 10 mg of BioPerine with each of ten 500 mg doses of Fisetin. This did seem to produce some magnifying effect, because I experienced a mild side effect (vertigo) that I had not experienced

with a previous large Fisetin dose.”

fisetin with DHA: https://www.fightaging.org/archives/2018/10/animal-data-shows-fisetin-to-be-a-surprisingly-effective-senolytic/ “The combination of the two agents was found to have a strong synergistic effect on inflammation. Effective ratios include without limitation those where fisetin is provided at a concentration of at least 5 μM, and where the ratio of DHA to fisetin may be at least about 1:2, 1:5, 1:10 or more". My add - is it synergy or fish oil increasing bioavailability?”
so 600 mg of fisetin would go with 3 grams of DHA, which could be beneficial as a lipid medium, 3 grams of DHA is about 30 fish oil capsules at the 10 times as much DHA as fisetin. The 2 days, or perhaps more at 1.4 grams of fisetin a day is again about 3

Grams DHA at a two to one DHA fisetin ratio.

Oral fisetin is much more optimal as a longevity technology because oral is convenient, notably though, “It has been shown that the fisetin nanoemulsion injected intravenously showed no significant difference in systemic exposure compared to free fisetin in mice, but when given intraperitoneally as compared to free fisetin, a **24-fold increase in the relative bioavailability of fisetin** was found.”

piperine could heighten phenibut effectiveness and metformin effectiveness and antipsychotic effectiveness: “refer you to https://www.isotrope.com/bioperine/ . It says that: "P-glycoprotein is a protein the body uses to break down

exogenous compounds found in the body. This protein inhibits the action of many medications, and also regulates the degree to which certain nutrients are absorbed by the body. **This protein actively controls the permeability of the blood-brain barrier, which directly impacts the overall effects seen by many compounds such as curcumin—the active compound found in Turmeric. Piperine inhibits the action of this protein.**"

Perhaps piperine effects the permeability of the bodywide vascular epithelium as well, causing greater drug activity at numerous tissues and organs simultaneously. **Fisetin dose frequency and plasma half life** could benefit from a novel molecular form that is nonreacted at the liver, **fisetin's plasma half life** is

described at a paper as being a quarter hour, at 233 mg/Kg in mice, although it is possible the mouse adjustment factor also applies to plasma half life, so that would make a human plasma half life of 3 hours, which suggests 4 times a day daytime dosing. Then again the mouse compensation factor could just be some amount based on blood volume and liver volume, which I am not aware of.

I do not remember the moieties but I perceive that I have read about things that cause nonreactivity to liver enzymes at chemicals and drugs that could be made a part of senolytic molecules, Tyrosine sulfate is excreted through urine and, from what I read is without hepatic metabolism. I have no idea what attaching fisetin or dasatinib to a sulfate moeity would

do; It is possible that just attaching fisetin to a molecule that has a few hundred hour plasma half life (although with all those -OHs on it it seems likely liver enzymes would modify those -OH even if one side of the molecule had some 200 hour plasma half life chemical like pimavanserin (an antipsychotic I am on) or a group like a sulfate that makes things like amino acids nonmetabolized; another plasma half life benefitting version: the Mayo clinic liposome version of fisetin, lengthy circulation with perhaps gradual liposomal bag coming apart and gradual release or also liposomal migration past the vascular epithelia to actual tissue cytes, skipping repeated hepatic passes (and metabolism) through the circulatory system.

Fisetin dose and plasma half life could benefit from that as plasma half life after IV administration is described at a paper as being a quarter hour, at 233 mg/Kg in mice, although it is possible the mouse adjustment factor also applies to plasma half life, so that would make a human plasma half life of 3 hours, which suggests 4 times a day daytime dosing. Then again the mouse' interval equivalent compensation factor could just be some different amount based on blood volume and liver volume and amount of available liver enzymes, which I am not aware of.

Noting autophagy at cytes and organelles is there such a thing as autophagy of nonorganelle, possibly even nonprotein cytoplasm goop? I perceive at

dermatocytes this is things like hyalonuric acid, so if hyalonuric acid has disintegration products then cycling it to get fresh goop could be beneficial, also it is my perception that the volume of cytogoop is large compared to the size of lysosomes so there might be a non lysosomal goop improvement mechanism at phenotypically young cytes, also **what of cytogoop refreshingness at neurons**?

Longevity technology: Some organisms like bacteria and possibly fungi like athlete's foot fungi and yeast produce protein-lytic enzymes called proteases, it is possible that **cytotransport of proteases to senolytic opportunities could cause sufficient dissolving of things at the cytoplasm like organelles to cause organism**

benefitting apoptosis. To quantify the effect at huamns and human tissue: note the number and ratio of nonoptimal cytes at things like surface dermis or vaginal or even cheek dermis; then have an antibiotic susceptible protease producing organism infect the tissue, which likely seems to then exude plasma like fluid and be gooey, then enumerate the percentage increase in young phenotype cytes after some number of hours of infection and then do organism infection termination with antibiotics; if the proteases are senolytic then although they are infected the remaining healing cytes would be youthful phenotype and be the cytotype that lives, and the tissue restored to youthful phenotype. Also, if this is accomplished without bacteria, just using **calibrated repeatable laser ablation of**

mouse dermal tissue, this would be a way to screen a library of hundreds or even thousands of proteases and other enzymes to find some that are medically actual senolytics, also, at tissue culture it would be possible to see if the dermal senolytics also had senolytic capability at completely different tissue like those found at depth in the body.
I think I read that some viruses code for proteases so the viruses can make tissue gooey, spreading the virus; engineering those viruses, or possibly breeding them to make senolytic proteases or other enzymes could make **an internal to the body produced senolytic, possibly with some tissue localization**, that has better coverage and puts less stress on the body than systemic or organ or tissue concentrated bacteria or fungi

would.

Brain function friendly, cognition enhancing senolytics: I read there are about 30 different neurotransmitters, linking a senolytic molecule such as the comparatively few AMU dasatinib or fisetin to each of their neurotransmitters, or chemicals that concentrate at that specific neuron-type creates 30 varieties of brain senolytics to quantitatively measure 30 different individual as well as combinable forms of induced youthful phenotype at. Describing this neuron-response-to-senolytics space is used to produce cognitively beneficial and harmless youthful phenotype at the brain; supporting this technology: I read a paper about dasatinib with quercetin where they measured the cognitive ability and nimbleness of mice who received the

dasatinib with quercetin combination, the mice improved their cognitive ability as well as their nimbleness. it is possible that measuring the 30 different kinds of neurotransmitter-neurons as well as things like glia and astrocytes will increase cognitive, longevity, healthspan, wellness and youthful phenotype benefits while reducing risk. **Noting published papers on the correlation of mental capability with longevity it is possible brain active senolytics could be even more effective than body senolytics at causing increased longevity.**

Even at body surface senolytics it is possible that lung wellness and function could be heightened with a senolytic protease or other enzyme producing virus. **While different**

than an immunization a one injection virus based tissue localized proteolytic senolytic would be beneficial.

longevity technology: If an efflux transport channel at a cyte is blocked with a drug, and a bioactive chemical that would usually be effluxed is possibly also stimulated to be at a higher amount at the cytoplasm with a different drug (or a molecularly modelled new drug that does both things simultaneously), does that bioactive chemical then build up at the cytoplasm: that could cause a cytotype localized senolytic drug effect if the decreased efflux and thus heightened cytoplasm amount that is increased is a protease or some apoptosis enzyme.
Longevity drug:The efflux blocker with stimulation of greater

cytoplasm amount technology could also be used to heighten the concentration of nonsenolytic endogenously produced longevity chemicals like autophagy stimulators, heat shock proteins, optimized histone things like methylators or acetylators,

GSK: Proteases after the application of dermal beauty treatments like lasers or chemical peels could cause a senolytic-effect cytokine, and chemokine reduction, and matrix protein optimization activity and a restoration of dermal tissue to youthful phenotype; proteases that function like senolytics, as well as other published senolytics topically or even orally could possibly cause an all youthful cyte population at the beauty treatment area which causes more rapid higher quality healing at **both**

beauty treatments and surgical sites, possibly even reducing scarring; sutures with senolytic chemicals, possibly including proteases could be quantitatively measured to find out if they work more optimally.

Senolytics that affect bone marrow could be beneficial, “The lymphocytic cells of centenarians have characteristics typical of cells from young people, both in their capability of priming the mechanism of repair after H_2O_2 sublethal oxidative DNA damage and in their PARP gene expression.[13] These findings suggest that elevated PARP gene expression contributes to the longevity of centenarians, consistent with the DNA damage theory of aging.”,

One senolytic that works on bone marrow is tetramethylpyrazine, a food flavoring, where 80 ml of 10% solution was near $33:
Local delivery of tetramethylpyrazine eliminates the senescent phenotype of bone marrow mesenchymal stromal cells and creates an anti-inflammatory and angiogenic environment in aging mice”, “Our findings revealed that local delivery of TMP eliminates the senescent phenotype of LepR+ MSCs via epigenetically modulating angiogenic environment in aging mice.”

Non oral dose of tetramethylpyrazine at bone marrow senolytic, “divided into different concentrations of TMP-treated groups (0, 1, 10, 100, 1000 μg/kg)” 1 mg per Kg, so as an oral human rather than mouse drug it is plausible to multiply the amount of

drug by 40 imagining that an oral drug is 40 times less physiologically less there, then divide by 60/5, the mouse compensation factor to produce a senolytic dose of 233.33 mg for a 70 Kg human. If oral tetramethylpyrazine is 1/100th the activity of IV then it is 583.33 mg a dose. At food grade TMP, 80 grams of 10% solution for near $33 online, the 8 grams of TMP would treat a human for 16 days at 500 mg a day.

Perhaps I will find out what the circadian, multi-sleep, what 24 hours means to a mouse metabolism effects on medication conversion are. Noting frequency of eating and sleeping during 24 hours it is possible the mouse is being dosed once every 7 or 11 sleep/eat cycles, so does that have a compensation or technology effect on a human taking a drug, like, is a senolytic dose every 24 hours at a

mouse like a senolytic dose once every 7 or 11 days at a human? I do not know.

tetramethylpyrazine is on alibaba.

They could screen a library of tetramethylpyrazine variants like butyl rather than methyl versions, halogenated versions, as well as C=O instead of C-OH versions and C-EtOH versions and calcium phosphate versions. It is possible they already are doing these things.
Bisphosphonate, a drug, could be a moeity that transports tetramethylpryazine to osteoareas, “bisphosphonate that is resorbed (from oral preparation) or infused (for intravenous drugs), about 50% is excreted unchanged by the kidney. The remainder has a very high affinity for bone tissue, and is rapidly adsorbed onto the bone surface. Once

bisphosphonates are in bone, they have a very long elimination half-life that can exceed ten years.”

one article says that a particular, or perhaps some, senolytics function by unblocking paused apoptosis, so **they could see if making mice with extra copies of apoptosis genes or a more promoting promoter sequences at those genes causes the mice to live longer with longer healthspan**; it is possible this gene therapy or possible germline modification could effect many more tissues as a senolytic than some other approaches. It is possible RNA drugs or siRNA drugs, perhaps transported with liposomes could amplify or activate the apoptosis genes to be another senolytic drug, although based on the material online I have read, germline modification and gene

therapy would provide more optimal longevity and wellness effects at humans.

One graphic https://onlinelibrary.wiley.com/doi/full/10.1111/acel.12344 suggests about 196 different genes change their expression at young well cytes compared with cytes where the organism would benefit from apoptosis. The cytes where the organism would benefit from their apoptosis, to my perception of the paper, actually have more gene expression, so likely more protein production, than the well cytes.

If there is a chemical that changes the shape or quantity of lysosomes that do apoptosis, or even a mitochondrial apoptosis effector that chemical could be a new senolytic longevity and wellness drug; It is possible NMN, or

even ribose linked to a mostly harmless chemotherapeutic drug, like possibly the chemotherapy molecule with the least side effects could be a senolytic from a mitochondrial concentration and membrane passing effect.

They could identify biological chemicals unique or at different concentrations to create new human longevity drugs, among the possibilities are something like electrophoresis of blenderized quahogs then seeing if the biological chemical electrophoresis bands cause yeast or ce elegans to live longer, then if they do engineer bacteria to make those chemicals, if they are proteins or peptides at sufficient quantities to test them on mice and humans; “The quahog clam (*Arctica islandica*) is exceptionally long-lived,

with a maximum recorded age of **507 years**, the longest of any animal.” The mitochondrial genome of the quahog has been sequenced and, to my perception, has some novel things. Similarly they could identify the chemicals in blenderized tardigrades to find out if any make yeast as well as other organisms live longer. Also, among a sample of perhaps less than 100-300 tested rockfish the shortracker rockfish has lived 200 years so rockfish tissue could be blenderized, electrophoresized, and have its effects measured on yeast, c elegans, mice. I perceive I read some drosophila live 4 months while others live 2 months, blenderizing, electrophoresis, and longevity effects from screening the library of isolated biological chemicals at yeast and drosophila could find new or novel longevity chemicals at the drosophila

that live twice as long, particularly compared with the other drosophila.

Killifish live 1-2 years, ebay: $9.99 for 30 eggs, there is another fish that lives 6 months but I could not find it again on the web. So these might be a thing I could test new longevity drugs on with n>=8 to get a p value. like compare NMN soaked food to ribose with nicotinomide soaked food with deprenyl with metformin with senolytics, as well as AEDG with thymosin, as well as other, chemicals with even more utility,possibly even LKM512 as well as C60 olive oil, both of which have greater than 90% published greater longevity at lab mammal effects, also then make a web page. So 40 eggs, or 60 eggs assuming some do not hatch for $19.98.

https://themysteriousworld.com/top-10-shortest-living-animals-in-the-world/ Drosophila live about 60 days and have numerous publications; Carolina Biological Supply has $59 and $90 kits, $8.75 drosophila single culture versions also $9.25 edible material drosophila longevity experiment supplies at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3582515/ ; Also I could see if new things like halogenated versions of various published longevity drugs have different effects like chlorinated metformin, halogenated rapamycin, chlorinated senolytics like fisetin, others, if the difference at the fish or drosophila is more than 40% better (14% longer than unmedicated fish or drosophila) than the usual metformin amount, or as well as the usual senolytic longevity increase then I could risk making and taking human

doses of chlorinated metformin, halogenated senolytics, or also other halogenated longevity drugs.

Well baby supplement, Hint of longevity technology or longevity genetics, “No enzymatic mechanism of tyrosine sulfate desulfation is known to exist. By knock-out of *TPST* genes in mice, it may be observed that tyrosine sulfation has effects on the growth of the mice, such as body weight, fecundity, and postnatal viability.” I perceive body weight, fecundity are similar to longevity drugs and biological forms where things like metformin or castration affects gonads and weight and can be used to delay puberty, and that puberty above the 50th percentile of delay might be linked to greater human longevity (I perceive something like 90th percentile or

higher of puberty delay has stronger correlation with longevity than upper half of delay (50th percentile) as to when puberty occurs), so tyrosine sulfate promoting or modifying drugs could be created and tested as to longevity effects, if more is better then “universal sulfate donor 3'-phosphoadenosine-5'-phosphosulfate (PAPS)” could be a longevity drug, also possibly large doses of glutathione; Also as regards to **sulfonated tyrosine effecting what wikipedia describes as postnatal viability; that suggests a possible well fetus well baby medication or supplement**. My perception is that from the researchers studying mice the research suggests: normal or perhaps more tyrosine sulfonation is beneficial, if it is more then maternal or even baby supplementation could benefit

babies, perhaps even direct consumption of sulfated tyrosine, tyrosine, or some harmless possibly GRAS chemical that increases sulfation of chemicals at the liver would be beneficial, also baby mice that cannot make tyrosine sulfate get pulmonary disease; Wikipedia says about where tyrosine sulfate gets its sulfate, “a transfer of sulfate from the **universal sulfate donor 3'-phosphoadenosine-5'-phosphosulfate (PAPS)”**, or perhaps big doses of glutathione which has publications suggesting it is beneficial, these could be quantified as to benefits to fetuses, babies, and what wikipedia means when it says “postnatal viability”. Also, any human SNP variations in tyrosine sulfation genetics could be correlated to baby wellness as well as post pubertal wellness, personality, and other

psychological metrics noting that tyrosine supplementation enhances mood and alertness, excess sulfation could affect personality as well as baby wellness.

“Magnesium [sulfate] administration attenuated the increased BBB permeability defect and caused a reduction in brain edema formation in our rat model of intraperitoneal sepsis”, **the magnesium sulfate made the blood brain barrier about 4 times less permeable at the unwell rats.** Alternatively, some chemical or protein isolatable from sepsis, while as an isolated chemical product is absent the unwellness of sepsis might **make the blood brain barrier 4 times more permeable, possibly on a 24 or 48 hour basis, to permit the passage of beneficial drugs, like longevity**

wellness healthspan heightening drugs as well as beneficial gene therapy.

Causing an organ to tissue barrier to be temporarily permeable could have medical value:Similarly it is possible the gonad-blood barrier or even the placenta could be beneficially addressed with fertility or menstrual cycle wellness drugs, or at the placenta heightened benefit from things like omega-3 lipids or other things that benefit a fetus

It might be possible to create a drug that causes a narrow 5 minute period of blood brain barrier, gonad brain barrier, or placenta as barrier activity window for administering a beneficial drug. Attaching a moeity that the liver is really avid about chemically modifying could do it, Also it seems kind of primitive, but a person could

be immunized against a cytomembrane transport molecule that is rare and does not occur endogenously, then a blood brain barrier permeability causing drug, like some bacterial products or piperine is attached to the antigen, the antibodies might be able to clean it up out of the circulation in less than 3 minutes, noting that there is actually an immunization against cocaine which pre-empts the mental effects of cocaine just from durably circulating antibodies. I have no idea how this could possibly work as 100-300 mg of cocaine seems like it would require 1-3 grams or much more of the much larger AMU antibody to be circulating, and glom onto the cocaine before it reached the brain; technologically though it suggests it is possible to have a 3 minute window of high blood brain barrier, blood gonad barrier, or

placenta high permeability.

Also, variations of the blood brain barrier, possibly correlatable at human genetic SNPs and then genetically modifiable at laboratory mammals to test hypotheses about things like: at a group of well persons, such as supercentenarians, with 99th percentile of blood brain barrier form both among the supercentenarians which would be compared with the population of children’s blood brain barrier permeability;

Noting that a combination of epithalon which is similar to a pineal product and thymosin causes humans to be 4 times less likely to be nonalive after 6 years and that the thymus and pineal are absent being filtered with the blood brain barrier it is possible that the brain or cerbrospinal fluid secretion tissues produce other

chemicals that would benefit the body. The pituitary has a blood brain barrier filter between it and the circulatory system, I am without any idea what would happen without a blood brain barrier filtration of exported pituitary chemicals.

Notably however measuring **the amount of permeability of the blood brain barrier at supercentenarians could come up with data that supercentenarians have 90th percentile or higher of blood brain barrier minimal permeability, which suggests a genetic basis of supercentenarian physiology that can be made available to everyone with blood brain barrier permeability reducing drugs** as well as gene therapy and also germline modification.

Noting measurements of supercentenarians, a published paper says magnesium sulfate causes the blood brain barrier to be 4 times less permeable, and **if blood brain barrier permeability has a quantified beneficial effect on longevity, wellness, and healthspan then magnesium sulfate supplementation could be a longevity drug.**

Also as a possibly longevity wellness parameter what is the permeability of the blood brain barrier at children and teenagers, it is possible that permeability is more optimal for people post-teens.

Screening a cerebrospinal fluid library to find longevity molecules: compare and find uniques among the different molecules and concentrations of a screenable library of same, shared, or

chronological age unique molecules at teens and children with those of supercentenarians: are there different chemicals or different amounts? Does chemical, supplement, or drug administration, gene therapy, or genetic SNP variation increase longevity, wellness, and cognitive function when supercentenarian CSF is modified to be like that of children?

It could benefit babies to have blood pressure in the 1th to 32th percentile, (just imagining that 1 standard deviation less of osmotic and blood pressure stress could benefit babies; also do babies experiencing some emotions or even thoughts then have measurable blood pressure “skyscrapers”? If they do is there a nootropic wellness promoting blood pressure reducer; the sweet sugar-OH mannitol reduces intercranial and

ocular pressure, tastes good, and might be harmless as well, Although I perceive babies get lots of loving touch and often experience music it is possible more of these things could benefit babies; it is also possible a laser based blood pressure monitor could measure the blood pressure of babies, if it happens to matter, and alert the parents, again, if it matters), “the blood–brain barrier (BBB) was still immature in newborns. This was due to an error in methodology (the osmotic pressure was too high and the delicate embryonal capillary vessels were partially damaged). It was later shown in experiments with a reduced volume of the injected liquids that the markers under investigation could not pass the BBB”

Blood or CSF of schizophrenics is published as terminating the lives of

rodents while that of well humans is harmless; **so do other nondisease mental states have an effect on rodents like people at 99.9th percentile IQ, g heighten cognitive function at laboratory mammals, also people at the 99th and 1st percentile of each of the big 5 psychology test areas**, are also sampleable and testable: also identical twins where one watches a movie with a particularly strong and frequent emotion and the other omits watching a movie; if the rodents behave differently when the blood, plasma, or cerebrospinal fluid of the humans is injected into them **they could use that as a basis to create beneficial new drugs** from screening the blood, plasma, or CSF for chemicals that effect cognitive capability, particular emotions, or various big 5 measures. Drugs based

on those could be beneficial: **a big five conscientiousness heightening drug would be a kind of voluntary successtropic**, agreeableness could assist those that felt they should make more friends or felt socially isolated or wanted better dating frequency and experience, although openness to experience might be more effective at making people more fluent at contacting potential dates and actually dating. Noting that being in a romantic partner relationship is correlated with wellness, and I think I read longevity, openness and seeking out of partners and romance as well as sex is beneficial. It is also possible to administer the blood, plasma, and CSF fluid of people at the 99th percentile of sexual activity and sexual thoughts, of all sexes, to laboratory mammals as well as human volunteers and

quantitatively measure mental contents at intervals, quantifying the amount and intensity of sexual thoughts, feelings, and emotions with a thing like experience sample monitoring (ESM) as well as measuring the amount of actual sexual activity increase at the body fluid receivers to quantify the effects of the physiological chemistry of the persons that think about sex and have sex more often than 99 out of 100 people; noting that sexual activity is a strong predictor of partner relationship well being, as well as sex being a popular thing, new drugs based on the unique or heightened physiological chemicals of people at the 99th percentile of sexual thoughts and actual frequency of sexual activity are beneficial to people.

Research on circulating biochemicals,

noting the published difference at schizophrenics, could **create new mental wellness medications that reduce mental emotional and perspective nonoptimalities**: blood, plasma, or cerebrospinal fluid from the minimal 1th percentile of big five personality test neuroticism, **when administered to rodents or human test volunteers and who then have quantifiable reductions in their own big 5 neuroticism measures support the creation of new mental wellness drugs as well as create possibilities for immunizations that increase mental wellness** from the immuneocytes glomming any nonoptimal circulating chemicals, other drugs and medications to heighten mental wellness include gene therapy or (likely) protein-drug producing probiotics.

GSK: making the two cycle dental hygiene technology even more functional: Another likely harmless thing that could be a cycle at a two or three cycle gingivitis and periodontitis preventer and breath scent odor-precluder could be the protein-lytic molecules known as proteases.

Some enzymes that digest proteins that are already mass produced are things like trypsin and pepsin, notably these are harmless if digested.

Proteases might work especially well with gum as the gum lasts at the mouth a few minutes and is plausibly delicious and used a few times every 24 hours. Also with gum it is imaginable that the person might chew 3-11 pieces of a delicious gum each 24 hours, and if each piece of gum had a different protease or other proteolytic enzyme they could get

several cycles of harmless-to-humans, fully stomach digested bacteriocides each 24 hours.

It is possible all the gum could have the same delicious flavor, but if there were flavor differences then it could be at like a 3 or 7 different flavor pack like peppermint/ juicyfruit/ wondermint/ "fruit stripe".Two_20cycle_20dental_20hygiene#1563706436

Transcytosis at blood brain barrier technology: Getting drugs past the blood brain barrier: “coating of polyalkylcyanoacrylate or poly-lactic-co-glycolic acid (PLGA) nanoparticles with polysorbate 80 or poloxamer 188. **Due to this coating the particles adsorb apolipoproteins E or A-1 from the blood and thus interact**

with the signalling protein LRP1 or with the scavenger receptor followed by transcytosis across the blood–brain barrier into the brain." something like this transcytosis transported drug coated with a coating that accumulates transcytosis chemicals from the circulatory system on its exterior could possibly provide beneficial transport of beneficial chemicals or drugs past the blood-gonad barrier as well as the placenta, to heighten fetus and baby wellness and heighten perinatal measures (like weight, APGAR, and possibly placental size and possibly also other fetus and baby attributes as well as maternal physiological chemistry measures) that predict life activities, wellness, and capabilities above the 50th percentile of 2019 AD humans generally. Although I think genetics

determines personality and capability, optimizing fetal and perinatal baby wellness could move the median of babies, and the fully grown people they become, up to the 60th percentile on average among those receiving better than well fetal, maternal, and perinatal baby medications.

GSK: Olfactory enjoyment chemicals, it is possible that there are chemicals active at parts per trillion that could cause other things to smell nice, screening a library of molecular variants of trichloroanisole (TCA), which wikipedia says, “The odor of TCA is not directly perceived. Instead, the molecule distorts the perception of smell by suppressing olfactory signal transduction.[2]” https://en.wikipedia.org/wiki/2,4,6-

Trichloroanisole ; The effect, which at TCA is not a scent people enjoy, could be modified from screening a library of TCA molecular variants to find variants that cause other things to smell pleasant; the TCA olfactory effect occurs at very low concentrations (**single parts per trillion**), so even very minute amounts of TCA can be detected. these moleular variants that are screened as a library to find versions that cause olfactory enjoyment could possibly be an ingredient in deodorants or antiperspirants as the parts pre trillion effect could pass through garments and cause even the slightest lingering scent to become enjoyable to a person near the person using the chemically new deodorant or antiperspirant, it could also be a pheremone sensitizer, possibly causing human attractant

pheremones to be much more potent. Also, at parts per trillion this could **cause perhaps almost all humans worldwide to smell better at likely 1 cent a year or less**. Further, it is possible that one person at a few hundred square meters could make all the humans at that area smell nice, and things like public transport, the homeless, and shelters could be olfactory modified to smell pleasant with a novel kind of air freshener.

Wikipedia says of an opiate peptide: “Casomorphin is a heptapeptide and could be able to pass the BBB”, also as previously noted Pro-Gly (noopept) concentrates at particular areas of the brain.

Reducing PEA use to 2 days a week, “According to New Scientist, 40 percent of individuals treated with a combination of vigabatrin and

counseling remained abstinent from [a stimulant]

MWI: some MWI articles suggest I am actually asleep, as that is one of the unitary MWI kinds of occurences; at some of those I wake up, of course the ones where I wake up to a high fidelity version of what happened during my actual life, perhaps as a sleep walking P-zombie would be there as well.

MWI technology: